

❖ CROSSTALK ❖

May 1994

President's Message

The story has been told of a ship underway during a very bad storm. The Captain and crew were utilizing all of the skills that they had acquired. This was truly a lot of work for each man and they were tiring rapidly.

The Port watch shouted to the Captain that he saw a flashing light sending the message "Change course 10 degrees to the North"...As the Captain thought about this message the ship pitched on the angry sea. After the Captain made his decision, he shouted for the Signalman to send the message..."You change course 10 degrees to the South, we are a Destroyer". Instantly a reply came back over the crashing waves "Change course 10 degrees to the North...we are a Lighthouse!"

We need to watch ourself as we go through life...we achieve many great things in the time that we are given...We should never think so highly of ourself that we forget who we are and where we have come from....As amateur radio op's we all started the same way...that person who helped us along, our Elmer was trying to continue this great hobby through YOU! Lets try to share with others during this beautiful Springtime...the time of renewal.

I would like to take a few lines to thank my Board of Directors for their continued help. They have gone out of their way to be at each of the meetings that I have planned...and when given an assignment, they worked at it. We have a dedicated bunch and you-all can be proud of their efforts.

We will be having a few work days planned this spring/summer...please try to help us keep our property looking great...we still are in need of someone to be our site chairperson...if you think that you could help us in this regard, please let on of the Board members know or let me know.

As you know, we are having more and more people participate in the Fox hunts. Our most recent winners found the "bunny" in less than 2 minutes.(talk about aggressive!!!, Steve that's a force to be reckoned with!!!!!!) It would be alot of fun if we could team up with another Amateur radio club nearby...if you know of such a club or individuals that would like "hunting" with us please let me know.

I have heard through the grape vine that Ten-Tec (the only manufacturer of Amateur equipment in the USA) may start to develop kits . You probably say...why is Charlie bringing this up...Consider how many of those "bells and whistles" you really use on the rig that you now use...if at a later date Ten-Tec, or any other company for that matter, were to begin selling kits...would you consider building one....for some people the answer would be no...BUT for some people the answer would be "maybe...it all depends".

Would those of you that might consider building a kit, or helping a new ham build a kit , begin to think about this. The only way that we are going to get a quality kit building company is to support it...and that means buying their product. Remember building our gear and accessories is very much a part of Amateur radio!

Its time to get all of those antennas tuned up, coax weatherproofed, ground rods installed ...PLEASE use extra caution...ask a friend to spot you...don't take any chances...someone is counting on YOU!

73 till we meet again.....

Charlie Olinda N2SRQ

DX REPORT

BY: K2JF, JOHN FISHER

YEMEN 701AA....Check the Arabian Nighhts and Family Hour nets. 14226, 14243, and 14250 kHz. Also he chats with Zedan JY3ZH, around these frequencies..QSL via PO BOX 485 ADEN YEMEN.

SEYCHELLES S79CK....Planned to activate COSMOLEDO IS. from May 3 to 6th. QSL vis S79CK. Usual DX frequencies.

PACIFIC ISLAND....Ron ZL1AMO, now in TUVALU as T28RW. He plans to be active from C21 and maybe T30 in near future. Listen usual DX frequencies. QSL VIA ZL1AMO.

SRI LANKA 4S7WP....has been and will be active around 14020 Khz between 1600 and 1700Z. 4S7AVR on 14193 at 1752, 4S7WN on 14020 at 1750, and 4S7MZ on 14195 at 1745. (Note not too hard to work. Can be done with 100 watts on 14020. Did it.)

FRENCH GUIANA FY9IS....will be QRV from Salut Island in the Atlantic May 13,14 & 15. IOTA SA20

(Continued on page 6)

G.C.A.R.C. HAMFEST REPORT APRIL, 1994

Here's the second report of what's going on with your hamfest committee...

We have finally received the notes from the previous hamfests, and are seeing how that information can benefit the 1994 hamfest.

If you are planning to go to a hamfest out of the immediate area, please call KA2EZN, KB2JCG, or N2QEB about taking G.C.A.R.C. hamfest flyers to the event, for distributing.

We're finally getting organized! We have the flyers ready to print, as well as the tickets. We have agreed on main prizes, (more on that next month!) and have been "on site", looking over the grounds to finalize plans on how we will be assigning spaces to tailgaters.

The grounds certainly look different with no one there. It's hard to imagine the same space teeming with radio enthusiasts, eager to find that perfect deal.



HELP!!!! We have not had any volunteers to help the club with the food concession at the hamfest. If we can't get any help, we'll have to get a outside vendor to run a concession at the hamfest.

!!!!!!!!!!!!!!

**THIS WILL RESULT IN A SIGNIFICANT
LOSS OF INCOME**

!!!!!!!!!!!!!!

If you are considering lending a hand with this MOST important part of our hamfest, PLEASE call.

We still need many volunteers to make our hamfest a success!!!! **PLEASE** don't leave it to your fellow club members to haul the load. I'm only looking for you to spend just a few hours of your time at the hamfest. **HELP THE CLUB!** You're a member....be proud of the G.C.A.R.C. and support this most important fund raiser.

If you would like to help YOUR club with just a few hours of your time on August 28th, (and I'm sure that you do!) PLEASE call me

73,

John KA2EZN

Wanted

Individual(s) with an interest in the Club and a desire to expand their expertise with desktop publishing. Must be willing to fight for the 'freedom of the press' and be able to put in a few hours a month preparing this nationally read newsletter.

Anyone interested, please contact any of the Board of Directors, Club President or Vice-President. Remember... "If Harry can do it, anyone can do it!"

Don't let the Club newsletter die!

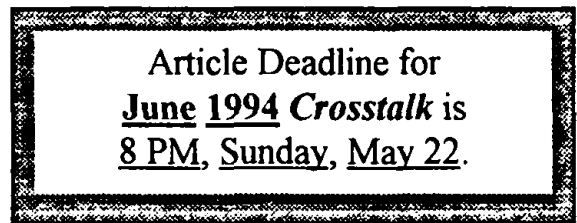
I am in need of...

- ◊ a schematic for a Drake 2 meter mobile radio... Model 'Marker-Luxury'
- ◊ a 2 meter beam and rotor to purchase.
- ◊ shareware or regular software that will control an AEA PK-232 with a Macintosh 128.

If you can help me out, please call

73 & TNX

Charlie, N2SRQ



FOX HUNTING BY JIM, N2WHY

The fox hunt on Saturday, April 9, 1994, started as they said it would at 0830.

I used a new method to find Steve, N2GVR. As I tuned to 147.540 MHz, I could hear Steve scratching fleas and his dog panting. I immediately went back home and took my radios and antennas pout of my car and put my dog up front.

My dog (who by the way is constantly in heat) had no problem finding Steve's dog (who really has bad breath) in about 10 minutes. Even though I was cheating it just goes to show the length a ham will go to succeed.

73, Jim

FIELD DAY - 1994

The G.C.A.R.C. Executive Board has proclaimed that as one of the largest Amateur Radio Clubs in the Northeast, and ranking #1 in the 10A Class in 1993, that this year the G.C.A.R.C. will make every effort to conduct the biggest and best Field Day Event ever, in the clubs history! For those of you who have never participated in Field Day, and don't know what it is about, I will attempt to relate just some of the ideas to you.

TRADITIONALLY, The forth weekend of June is set aside in the U.S. and Canada as Field Day weekend. It is an exercise where amateur radio operators get together and set up remote radio stations operating on emergency power. During this 24 hour period, attempts are made to contact as many amateur stations as possible. Even though we "compete" in Field Day, we know deep in our hearts that we're just practicing for that unexpected call to provide emergency communications. Who knows when it will come? Field Day is the only real practice some of us receive in dealing with any type of emergency communications. So we practice our emergency communication skills at least once a year, and this practice is called Field Day! Field Day operations are from 1400 hrs Saturday until 1400 hrs Sunday (Eastern Time). This period is preceded by set-up on Friday Night and Saturday morning, and clean up on Sunday afternoon. We are looking for a little help from alot of volunteers.

The tentative outline for Field Day this year is as follows:

1. Appoint a Chairman to accept responsibility of organizing a successful Field Day, and to also...
2. Recruit volunteers to assist in various appointed committees (i.e. Band Captains, Generator Crew, Food, Set-up, Take-down, Logging, etc...) And let's not forget lots of operators and clean-up crews.

We plead with you, '*The Silent Majority*', and the '*Not So Silent*' too,... **PLEASE GET INVOLVED!** Help make this a successful Field Day! We are not asking for commitments involving long hours. The more people we can recruit, the easier it will be to have a successful Field Day.

This year, as in the past years, the callsign used will be W2MMD. All G.C.A.R.C. Club Members who are Field Day operators will use this callsign, thereby giving us all Extra Class privileges regardless of the operator's license class. An example of a typical contact would be as follows:

- ◊ Tune your receiver through the particular band you are working. Listen for a station calling... "CQ FIELD DAY".
- ◊ Return your call as... "W2MMD".
- ◊ 3) If the station hears you, he will respond with... "W2MMD, W5ABC. Your signal report is 59 from North Texas. QSL?".
- ◊ You respond with... "QSL 59, North Texas. Your report is 59, Southern New Jersey".

That is all there is to it. Upon completion, log the contact and the time. (There are usually two operators at each position with one operating and one logging.) When operating, instead of listening, you may decide to call "CQ Field Day" and wait for a station to answer your call. It is fun and satisfying!

But that is not all! Field Day is a lot more! We encourage CW operators since each CW contact is extra credit - - - but everything counts.

One of the biggest problems in the past has been the lack of operators to help with the 'Graveyard Shift', from about 2200 on Saturday until 0700 Sunday morning. If you can help fill this gap for an hour or two, that would be great. Not operating when the band goes out is one thing, but it is a shame to hear all those stations call CQ, when we don't have enough operators to keep the transmitters going.

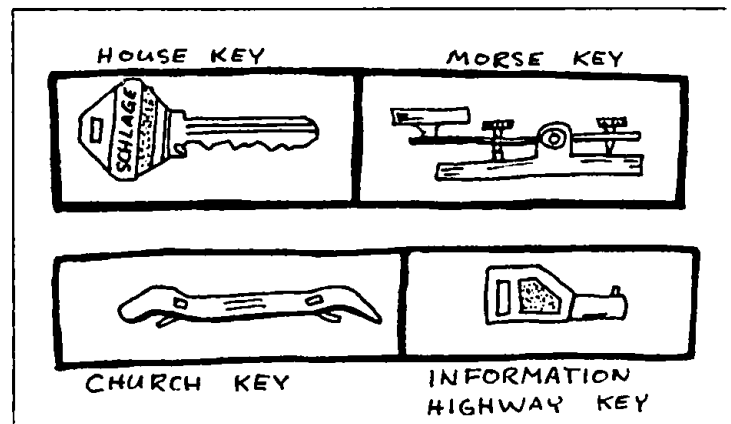
We serve refreshments at Field Day for those who are participating. We encourage visitors to see what is going on, but we tend to discourage 'freeloaders' who come just for the food and drink. Contribute a little of your time and you're welcome to eat and drink as much as you please until we run out!

We will continue to remind you about this event until June 24 - 26 (Friday - Sunday). Besides the physical help, we can use, and need, equipment for Field Day such as Transceivers, Antennas, Coaxial Cable, Extension Cords, Ladders, Antenna Tuners, Tools, etc... We would appreciate any commitment you can make.

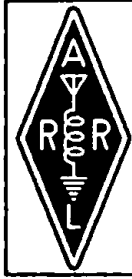
Please contact me N2GVR or any member of the G.C.A.R.C. Board of Directors, if you have any questions or if you can help. Let's make this the best and most successful Field Day exercise that the club has ever conducted! And look for the meeting times and places of the organizational meetings for this here in Crosstalk.

Sincerely (73)

Steve, N2GVR
Field Day Chairman



ZCZC AG95
 QST de W1AW
 ARRL Bulletin 31 ARLB031
 From ARRL Headquarters
 Newington CT April 11, 1994
 To all radio amateurs



SB QST ARL ARLB031
 ARLB031 ARRL Vanity call proposal

ARRL Develops Position in "Vanity" Call Sign Proposal

On April 9, the League's Executive Committee approved the recommendations of the Ad Hoc Committee on Preferred Call Signs in preparation for the ARRL's filing of formal comments in PR Docket 93-305, the FCC's "Vanity" call sign proposal. The recommendations were based on membership input solicited by the committee.

The committee feels that all amateurs should be eligible for participation in the program. A phase-in period and priority system of "gates" should be adopted to allow the Commission relief from the administrative burden expected from the heavy initial submission of applications, and to afford licensees the opportunity to regain lost call signs. Included in the first 'gate' would be those who wish to obtain the call sign of a direct family member. Clubs with lapsed club licenses and call signs should be allowed to recoup those call signs in the first priority group. The second gate in the priority system would be opened to Extra Class licensees; a priority third gate would be opened to Advanced Class licensees.

The League will recommend that 1 X 1 call signs, such as 2A, be made available for limited duration special events of national significance.

A copy of the committee's complete report is available for an SASE from the Regulatory Information Branch at League Headquarters, and on electronic services including CompuServe, America On Line, Prodigy, and the ARRL Bulletin Board. It is also available by e-mail from infoarrl.org, or by FTP from oak.oakland.edu. The file name is "93-305.rpt."

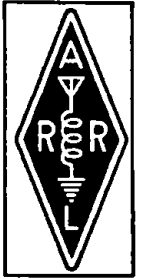
NNNN

STILL WANTED

THE GCARC BOARD OF DIRECTORS is still looking for a couple of items to be donated to the Club. We are in need of an overhead projector and a 6 ft portable screen to be used with the projector.

If you know of someone who has these items and could/would donate them to the Club, please give one of the Directors, or the President a call. (The second option is still to purchase these items at a VERY good price!)

ZCZC AG96
 QST de W1AW
 ARRL Bulletin 32 ARLB032
 From ARRL Headquarters
 Newington CT April 12, 1994
 To all radio amateurs



RESOLUTION GAINS MAJORITY

The Amateur Radio Service Joint Resolution, H. J. RES. 199, now has a majority of the US House of Representatives as cosponsors. On April 11, four additions to the list of cosponsors brought the total to 220, (of which three are non voting delegates).

The four are: Rep. James Talent (R-MO), DEL. Eleanor Holmes Norton (D-DC), Rep. Thomas Ridge (R-PA), and Rep. Don Young (R-AK).

The resolution seeks formal recognition of the value of amateur radio to the country, would support amateur radio as "national policy," and would encourage rules and regulations to facilitate amateur radio as a public benefit by encouraging new technologies.

Including resolution sponsor Jim Cooper (D-TN), the total number of voting sponsors is now 218. There are currently 434 representatives in the house.

More on the resolution and the league's efforts in Washington were in April QST, pages 47 to 50.

NNNN



What do you think? The K's are kind of cute, and the 0 is complete spiritually. Should I get my initials? How about.....

ZCZC AG97
 QST de WIAW
 ARRL Bulletin 33 ARLB033
 From ARRL Headquarters
 Newington CT April 15, 1994
 To all radio amateurs



SB QST ARL ARLB033
 ARLB033 Club rule changes sought

Club rule changes sought

The ARRL has petitioned the FCC to increase the minimum number of members necessary for granting a club station license from two to four. The FCC has designated the petition RM-8462.

The League said that the FCC's 1993 notice of proposed rule making to reinstitute club licensing makes this a timely issue.

In 1990, the League, as part of a petition for rule making seeking miscellaneous changes in the Amateur Service Rules, proposed the same change. At the time, no club station licenses were being issued, but the League said that if that program was resumed, the two-person criteria would invite applications from parties that are not clubs, such as two or three licensees simply wanting an alternative call sign.

The FCC at that time declined to change the criteria, since new club licenses were not being issued.

The League said that the two-person criterion is insufficient to distinguish bona fide clubs -- which should be encouraged and provided the identity of a separate license and call sign -- from two or three individuals who do not function as a normal Amateur Radio club.

The League said, by way of example, that of 1,957 Amateur Radio clubs that are ARRL-affiliated, only 10 have fewer than four members.

Until 1976, the FCC required an application for a club station license to file copies of the club's constitution and bylaws, which helped ensure that the club was bona fide.

The FCC has not issued club station licenses since 1979.
 NNNN

ZCZC AG99
 QST de WIAW
 ARRL Bulletin 35 ARLB035
 From ARRL Headquarters
 Newington CT April 18, 1994
 To all radio amateurs



SB QST ARL ARLB035
 ARLB035 New rules on messages

The FCC has released its Report and Order in PR Docket 93-85, regarding messages relayed by amateur high speed networks. The new rules, effective June 1, 1994, will establish what the FCC calls "a compliance policy for amateur stations participating in automatic message-forwarding systems."

The new rules relieve most station operators in such networks of responsibility for the content of the messages relayed by their stations. Under current rules, all licensees in a chain of forwarding stations are responsible for message content.

Originators of messages continue to be responsible, and the first forwarding stations are responsible either for the content of the message or for verifying the identity of the originator.

The FCC also relieved repeater control operators of responsibility for inadvertent retransmission of communications that violate the rules. All operators remain responsible for discontinuing communications that violate the rules as soon as they become aware of their presence.

More information on the new rules will appear in June QST.

NNNN

SALE

Ray Martin, WB2LNR, has a 60 foot, self-supporting, commercial grade Morrison tower. If you are interested, he requests that you send him a note at the following address:

Ray Martin
 P.O. Box 404
 Franklinville, NJ 08322-0404

John, KA2EZN, has a Yaesu FT-227R, 2 meter transceiver, for sale. It puts out 10 watts, and he is asking \$150.

If you are interested, give John a call

THE HUNT

"Steve Sez"

EDUCATION HOW OP-AMP CIRCUITS ARE USED

73, Steve, N2GVR

Well here are the results of the April 9th "T" Hunt with me N2GVR and my new friend SHAMMY, a full grown Afgan Hound (with bad breath and fleas) as the "T".

The hunt started at 0830 as planned on 147.540 mhz.

- 1 N2KLE/N2DWR.....1 min 18 sec ??????
- 2 N2WHY9 min 22 sec
- 3 WA2TOP/Ashely1 hr 07 min 12 sec
- 4 N2WUP/N2WSI.....1 hr 46 min 10 sec

Late starts:

- AA2BN/N2WKV Start 0950 Finish 1035
- N2SRQ Start 0930 Finish 1030
- N2YIO Just trying it out, no times

Steve, N2GVR

I'd like to thank you all for participating and most of all N2WHY for the coffee and N2YIO for the donuts. Hope you all had fun and look at the times, isn't it great. Look for the next hunt announcement in this issue, it will be by the winners of this one and it should be good.

Happy Hunting,

Steve, N2GVR

GREENER PASTURES

The grass is greener somewhere else.
 Our thoughts persuade, and we comply.
 And when we get to somewhere else,
 we find the grass is often, dry.
 We fail to see the beauty all around us,
 every day.
 While looking for the greener grass,
 today just slips away.
 The children leave, the moment passes.
 Take it, that one chance,
 for it will never come again.
 One turning, One sweet dance.
 A single revolution.
 Once around... a single lick.
 Dip into the moment.
 Scoop it up, and eat it, quick!
 Savor it, the magic
 Taste the sweet bouquet.
 Moments in a lifetime so quickly... melt away...

Dolores Dahl

Because of their versatility and low cost, operational amplifiers are the workhorses of analog electronics. This 30-minute video takes you inside the operational amplifier circuit. You'll actually see how op-amps work and how they are used as amplifiers and comparators in control circuits and in other applications. Biasing and power supply requirements are also shown.

Because this class will be during Field Day month I will only be available for two classes. This will be shown out at the clubhouse at 1300 hrs on June 4th and 11th. Contact me if you plan to attend

(Continued from page 1)

JAPAN....an operation from UJI Archipelago by JI6KVR start around May 6. QSL JI6KVR. Usual DX frequencies.

FIJI, TONGA, & WESTERN SAMOA..JR7OEF....will be active from these South Pacific locations: May 2,3, & 4 5W0NI; May 4,5 & 6 as A35NI; May 7 & 8 as 3D2EF. QSL VIA JR7OEF.

SAINT MAARTEN....From May 24 to 30, Chod VP2ML/WB2CHO and Frank AH0W/OH2LVG will be signing PJ7/WB2CHO and PJ7/OH2LVG. QSL PJ7/WB2CHO via K1RH. QSL PJ7/OH2LVG and PJ8X via KE7LZ.

SAD NOTE: HK0BKX is now a silent key. Francisco provided, countless DXCC credits for San Andres Island. He will be missed.











DXAC VOTE RESULTS: (From W1AW DX Bulletin Nr 22 ARLD022) "By unanimous vote, the ARRL DXAC (DX Advisory Committee) passed a recommendation to delete Walvis (ZS9) and Penguin Islands (ZS0,1). The DXAC decided that these entities no longer meet the DXCC criteria following their turnover to Namibia by South Africa. This recommendation has been sent to the Awards Committee along with a suggested effective date of March 1, 1994. In another ballot, the DXAC voted down a proposal to add additional single band awards to the DXCC program (There were 13 no 2 yes votes with 1 abstain.) The committee also voted down a proposal to add a 10-meter DXCC honor roll by a 15 to 1 margin. Committee members expressed support for the mod-specific honor rolls that now exist (mixed, phone, CW, RTTY)."

To those who went I hope you had a great time at Dayton.

Tnx QRZ DX, ARRL, NJDXA, C U in the Pile-Ups.

May 01 - June 04, 1994

G.C.A.R.C. & Amateur Radio Events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p><i>May 1</i></p> <div style="border: 1px solid black; padding: 2px;"> 20:00 ARES/RACES 20:30 10 Mtr Net - 28.350MHz </div>	<p><i>May 2</i></p>	<p><i>May 3</i></p> 19:30 Camden County - ARES/ RACES Net	<p><i>May 4</i></p> <div style="text-align: center;">  20:00 GCARC Gen. Mem. Mtg. </div>	<p><i>May 5</i></p> 19:00 1010 Net - 28.360 MHz	<p><i>May 6</i></p>	<p><i>May 7</i></p> <div style="text-align: center;">  13:00 Ham Radio Education »Hamfest - Cherry Hill, NJ. »Hamfest - Oswego, NY Hamfest - Kent Island, Md. </div>
<p><i>May 8</i></p> <div style="border: 1px solid black; padding: 2px;"> 20:00 ARES/RACES 20:30 10 Mtr Net - 28.350MHz </div> <div style="text-align: center;">  Mother's Day </div>	<p><i>May 9</i></p>	<p><i>May 10</i></p> 19:30 Camden County - ARES/ RACES Net	<p><i>May 11</i></p>	<p><i>May 12</i></p> 19:00 1010 Net - 28.360 MHz	<p><i>May 13</i></p>	<p><i>May 14</i></p> <div style="text-align: center;">  13:00 Ham Radio Education </div>
<p><i>May 15</i></p> <div style="border: 1px solid black; padding: 2px;"> 20:00 ARES/RACES 20:30 10 Mtr Net - 28.350MHz </div> »Hamfest - Wrightstown, Pa	<p><i>May 16</i></p>	<p><i>May 17</i></p> 19:30 Camden County - ARES/ RACES Net	<p><i>May 18</i></p> <div style="border: 1px solid black; padding: 2px;"> 19:30 GCARC B.O.D. Mtg </div>	<p><i>May 19</i></p> 19:00 1010 Net - 28.360 MHz 19:00 VEC Test- ing - Bellmawr <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> 19:00 GCARC Hamfest Mtg. @ Clubhouse </div>	<p><i>May 20</i></p> »Hamfest - Roc- hester, NY	<p><i>May 21</i></p> <div style="text-align: center;">  13:00 Ham Radio Education »Hamfest - Rochester, NY <div style="text-align: center; margin-top: 10px;">  Armed Forces Day </div> </div>
<p><i>May 22</i></p> <div style="border: 1px solid black; padding: 2px;"> 20:00 ARES/RACES 20:30 10 Mtr Net - 28.350MHz </div> »Hamfest - Hagerstown, Md »Hamfest - Rochester, NY	<p><i>May 23</i></p>	<p><i>May 24</i></p> 19:30 Camden County - ARES/ RACES Net	<p><i>May 25</i></p>	<p><i>May 26</i></p> 19:00 1010 Net - 28.360 MHz	<p><i>May 27</i></p>	<p><i>May 28</i></p> <div style="text-align: center;">  13:00 Ham Radio Education </div>
<p><i>May 29</i></p> <div style="border: 1px solid black; padding: 2px;"> 20:00 ARES/RACES 20:30 10 Mtr Net - 28.350MHz </div> Hamfest - West Friend- ship, Md	<p><i>May 30</i></p> <div style="text-align: center;">  Memorial Day (Observed) </div>	<p><i>May 31</i></p> 19:30 Camden County - ARES/ RACES Net	<p><i>June 1</i></p> <div style="text-align: center;">  20:00 GCARC Gen. Mem. Mtg. </div>	<p><i>June 2</i></p> 19:00 1010 Net - 28.360 MHz	<p><i>June 3</i></p>	<p><i>June 4</i></p> <div style="text-align: center;">  13:00 Ham Radio Education Hamfest - Rome, NY </div>

LEGEND:

»Hamfest' indicates an ARRL Hamfest

'Hamfest' indicates a NON-ARRL Hamfest



Cloucester County ARES/RACES Callup List



WA2USI.... CHICK
KA2KMW .. ED
N2DWR MARLA
AA2BN..... JOHN

K2HPV HERB
K2JF JOHN
K2OWE..... JIM
K2ZA..... JACK

KA2DZF PETE
KB2AYU.... AL
KB2DHQ ... JERRY
KB2EAH.... BOB

KB2EAI BUTCH
KB2ETV JAY
KB2ETX.... JEFF
KB2FRN.... JOE

KB2GL JOHN
KB2GW..... GEORGE
KB2IRK..... WES
KB2JCG WALT

KE2ES TOM
KE2SC SKIP
KE2WC..... MARK
KN2U KEN

N2AKL ROSLYN
N2ASV RUSS
N2AYK ED
N2CME PETE

N2DWK..... SAM
N2FJQ AL
N2FKT DAN
N2FNF IRMA

N2FPO..... MARTY
N2GVR STEVE
N2HYS..... JANICE
N2IMH..... JIM

N2IVN CHRIS
N2KLD MARY ELLEN
N2KLE JOE
N2LZS..... LOU

N2MWX..... DENNIS
N2NGQ..... LLOYD
N2NLE JOHN
N2PKJ BILL

N2PKK..... PEG
N2PKN TONY
N2PKP..... MARK
N2PKT LOU

N2QEB BILL
N2QEE GARY
N2RTX..... JOHN
N2SBP..... BARBARA

N2SVN JIM
N2SRO MIKE
N2SRQ CHARLIE
N2SS TONY

N2STQ BILL
N2TXW..... GUS
N2WFD ROB
N2WFM DON

N2WFO GARY
N2WHL..... RAY
N2WUP STEWART
N2YIO..... GLENN

NY2J..... BOB
N3GSD JOHN
WA2FGA ... MILT
WA2IBZ..... HOWARD

WA2PFC ... ED
WA2SIT RICH
WA2TML ... CHUCK
WA2TOP MIKE

WA3UVV ... CORY
WB2CAK ... JERRY
WB2DXB ... SONNY
WB2EFL.... HERB

WB2OZE ... JOSE
WB2VFX.... BILL



Cloucester County ARES/RACES Net Control List



MAY 01 N2DWR
MAY 08 AA2BN
MAY 15 KB2AYU
MAY 22 KN2U
MAY 29 N2AKL

JUNE 05 N2DWK
JUNE 12 N2FNF
JUNE 19 N2KLD
JUNE 26 N2KLE

JULY 03 ... N2NLE
JULY 10 ... N2PKJ
JULY 17 ... N2SRO
JULY 24 ... WA2IBZ
JULY 31 ... WB2DXB

AUG 07 N2SRQ
AUG 14 KA2KMW
AUG 21 N2GVR
AUG 28 WA3UVV

SEPT 04.... KB2DHQ
SEPT 11.... N2MWX
SEPT 18.... N2QEE
SEPT 25.... N2YIO

IS YOUR NAME/CALL HERE?

If so, your ARRL membership has expired! See the GCARC Treasurer to renew, and get the club a couple of dollars at the same time!

WA2WFZ	Mark	02/28/82	NJ2B	Harry	08/31/89
KB2ERL	Robeert	09/30/93	N2LCN	Ed	12/31/93
AA2DJ	John	04/30/93	N2IMH	James	08/31/92
WB2VNS	Vincent	08/31/90	N2DWK	Sam	09/30/89
KB2AYW	Joel	05/31/92	WB2HVJ	Norman	06/30/90
WA2DUV	Willie	10/31/87	N2PJV	Ed	08/31/92
KC2PC	Chris	06/30/85	WA2YLC	Richard	11/30/93
KA2OSW	Craig	03/31/89	N2NMY	John	12/31/93
KA2ZRN	Joanne	03/31/89	KB2ETT	John	02/28/89
N2DJZ	James	07/31/91	WA2PFC	Ed	05/31/88
WB2OYQ	Walton	12/31/93	KB2EUA	Marium	09/30/93
WA2USI	Charles	01/31/94	WA2ZND	Emmett	02/29/88
WB2OZE	Jose	03/31/86	N2SBV	Henry	02/28/94
N2FKS	Mike	09/30/88	N2DNJ	Joseph	09/30/93
KE2WC	Mark	11/30/93	KB2PAU	James	01/31/94
WC2K	Richard	03/31/93	KB2DHQ	Jerry	07/31/90
K2UUY	Frank	07/31/90	KA2EZN	John	10/28/82
KB2COB	Robert	12/31/90	N2IVN	Chris	07/31/92
N2DJN	Hank	02/29/88	WB2GSF	Harry	04/30/92
N2RCJ	John	10/31/93	K3WIL	Milt	02/28/92
			N2IMK	Gene	06/30/91

1.2 GIGAHERTZ: A NEW FRONTIER?

The 1.2 GHz band (a.k.a. 23cm & "1296") is certainly not as crowded as 2 meters. In fact, there is very little activity on this band in our area. Of course, at one time, 2 meters was fairly desolate.

It may surprise you that a number of members of our club have equipment for this band. A number of others are interested in becoming active up there as well.

I am considering the establishment of a repeater and would like to know if any of the readers of this newsletter are interested in joining in.

This "territory" is ideal for someone who likes to experiment with new things and considers themselves something of a pioneer.

There is already a growing number of radios on the market which cover this band. ICOM, Yaesu, Kenwood and Standard all make single, dual, or triple band radios. Even handhelds are available. I have both a 440/1296 mobile and HT.

Putting such a repeater on the air is not very difficult. Because of the short wavelength, antennas need only to be 10 feet apart vertically to provide adequate isolation. NO DU-PLEXER IS NEEDED. Amplifiers in the 18 to 70 watt range are also easily obtained. Omnidirectional

antennas can be found with 18db gain figures. They are fairly small, too.

A repeater could be assembled with either 2 rigs or, 2 dual band radios. The 440 side of each could provide the control link and allow greater flexibility with transmitter power.

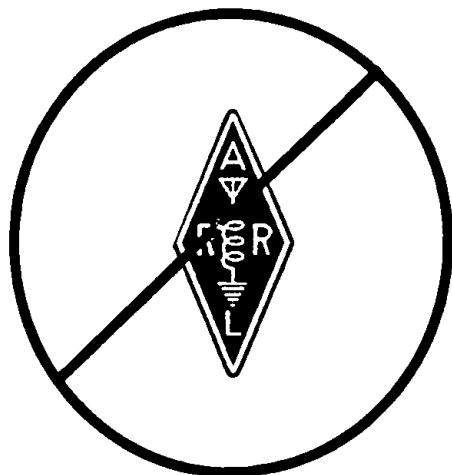
A typical setup with 10 watts into the antenna would result in an effective radiated power of 640 watts. With 36 watts an ERP of 2,300 watts would result!

Sound interesting? Looking for a challenge? Just like to try something new?

If you are interested in this, please let me know.

TNX,

WA3UUV, Cory

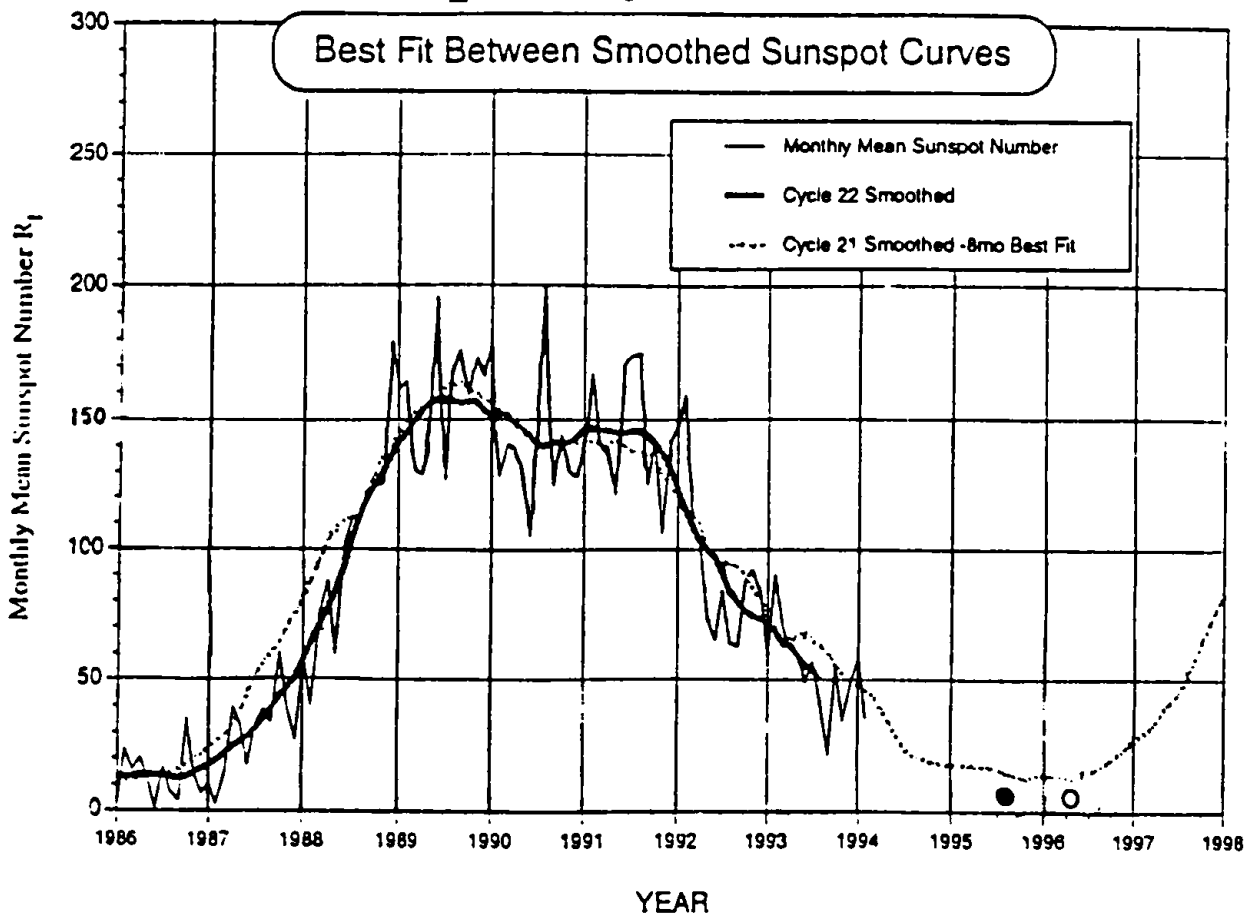


R U A NON ARRL HAM?

Expected Minimum for Solar Cycle 22

Solar cycle in the modern record have not been 11 years in length. A group of shorter cycles have had a mean duration of 10.2 years, and a set of longer cycles have had a mean duration of 11.8 years. If cycle 22 is a short cycle, this would imply that minimum would occur late 1996; a longer cycle would end in the second half of 1999. Various rules or guidelines are used to predict the occurrence of the solar minimum for a solar cycle. One approach to foreseeing the next minimum would be to overlay the smoothed mean sunspot number for solar cycle 21 on the smoothed mean sunspot number for solar cycle 22. This estimate assumes that the present pattern of the solar activity levels will continue. Using this approach we can expect that the middle of 1995 will be the earliest time of solar minimum for cycle 22, which is represented by the black dot in the figure. The fit between the smoothed curves of these two cycles was obtained at the start of 1990, and subsequent data have not changed the phase relationship between these two curves. From another perspective, we see that solar minimum follows about 3–5 years after the first spotless day after the peak of the cycle. This rule would place the solar minimum for cycle 22 in late 1996, since the first spotless day was in fall 1993 (the 1996 solar minimum is represented by the open circle in the figure).

Sunspot Cycle 22 vs 21



The original plot was created by Patrick McIntosh/NOAA



WARMINSTER AMATEUR RADIO CLUB'S

20TH YEAR!

HAMFEST 94

May 15, 1994 Rain or Shine

Middletown Grange Fairgrounds, Penn's Park Road, Wrightstown, Pa.
Vendor Setup 6AM - General Public from 7AM to 2PM

VE Testing - Call for details

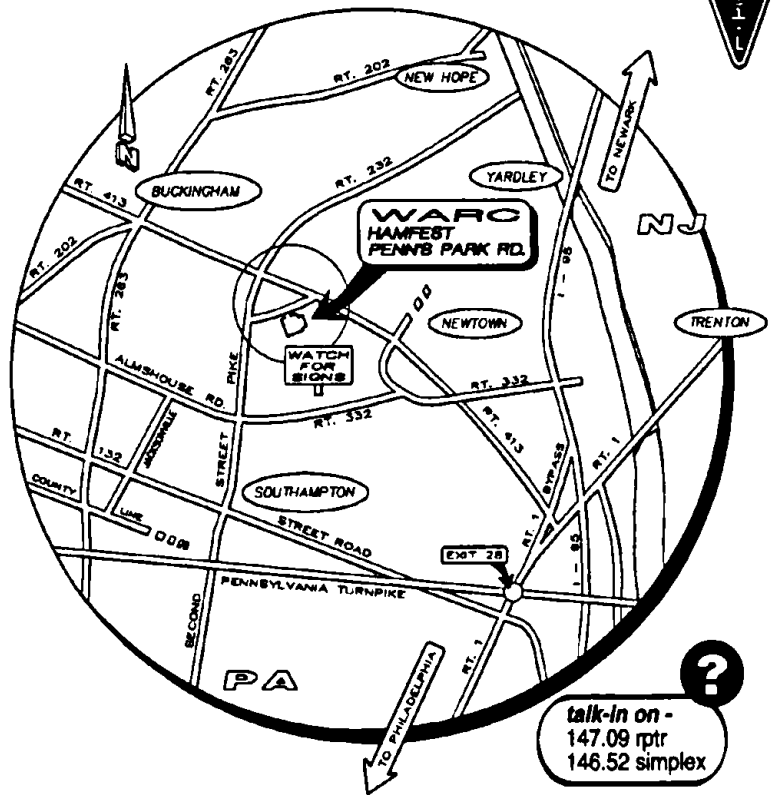
Food & Beverages Available

Equipment Check-Out Table

Gate Donation only \$5.00 per person. XYL and kids FREE

Unlimited outdoor tailgating space available at \$8.00 per car-width space (head-in parking).

Approx. 80 indoor spaces available at \$12.00. Tables provided with electricity available at selected locations. **CALL FOR MORE INFO!**



For more Information

For Vendor Info contact -
Woody Woodside N6XES (215) 672-8482
665 St. Davids Ave. Warminster, Pa. 18974

For General Info contact -
George Brechman N3HBT (215) 443-5656

talk-in on -
147.09 rpt
146.52 simplex

Hamfest Flyer By Dave Dohr WA3YAY

Present this form at the Gate - Save \$1.00 off admission

- _____ Gate Admission @ \$5.00 ea.
- _____ indoor Spaces @ \$12.00 ea.
- _____ Outdoor Spaces @ \$8.00 ea.



Note: 1 admission included with each indoor or outdoor space. Form must be completely filled for \$1.00 discount.

Name _____ Call _____
Address _____
City _____ State _____ Zip _____
Telephone Number _____

Mail completed preregistration for vendor space(s) with check or money order made out to WARC to Woody Woodside N6XES 665 St. Davids Ave. Warminster, Pa. 18974